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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/598,372	06/21/2000	Laurent Ouvry	034299-260	7291
75	590 07/31/2003			
ROBERT E. I	·	EXAMINER		
THELEN REID P. O. BOX 640	 -	FAN, CHIEH M		
SAN JOSE, CA	95164-0640		ART UNIT	PAPER NUMBER
			2634	α
			DATE MAILED: 07/31/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.



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		Application No.	Applicant(s)	
Office Action Summary		09/598,372	OUVRY ET AL.	D
		Examiner	Art Unit	
	·	Chieh M Fan	2634	
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover she	et with the correspondence addres	s
THE I - Exter after - If the - If NC - Failu - Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply opened for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, my within the statutory minimum vill apply and will expire SIX (6, cause the application to beco	ay a reply be timely filed of thirty (30) days will be considered timely. MONTHS from the mailing date of this commune ABANDONED (35 U.S.C. & 133).	inication.
1)[🛛	Responsive to communication(s) filed on 21 J	lune 2000 .		
2a) <u></u>		is action is non-final.		
3)	Since this application is in condition for alloward closed in accordance with the practice under a	ance except for formal	matters, prosecution as to the m	erits is
Dispositi	on of Claims	, , , , , , , , , , , , , , , , , , , ,		
4)🖾	Claim(s) $\underline{1-3}$ is/are pending in the application.			
	4a) Of the above claim(s) is/are withdrav	vn from consideration		
5)	Claim(s) is/are allowed.			
6)⊠	Claim(s) <u>1-3</u> is/are rejected.	•		
7)	Claim(s) is/are objected to.			
	Claim(s) are subject to restriction and/or on Papers	election requirement		
9)🖾 -	The specification is objected to by the Examiner	·.		
	The drawing(s) filed on <u>21 June 2000</u> is/are: a)[ected to by the Examiner.	
	Applicant may not request that any objection to the		<u>. </u>	
11) 🔲 🗆	The proposed drawing correction filed on			
	If approved, corrected drawings are required in rep		,	
12)[] 7	The oath or declaration is objected to by the Exa	aminer.		
Priority u	nder 35 U.S.C. §§ 119 and 120			
13)⊠	Acknowledgment is made of a claim for foreign	priority under 35 U.S	.C. § 119(a)-(d) or (f).	
	☑ All b)☐ Some * c)☐ None of:	•		
	1. Certified copies of the priority documents	s have been received.		
	2. Certified copies of the priority documents		in Application No.	
	3. Copies of the certified copies of the prior application from the International Bur ee the attached detailed Office action for a list of	ity documents have b	een received in this National Stag	je
	cknowledgment is made of a claim for domestic			lication)
a)	The translation of the foreign language producknowledgment is made of a claim for domestic	visional application ha	s been received.	noution).
Attachment		- production of orc	33 120 alla/ol 121.	
2) 🔲 Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>3</u> .	5) Notic	iew Summary (PTO-413) Paper No(s) e of Informal Patent Application (PTO-152 :	
S. Patent and Tra TO-326 (Rev		ion Summary	Part of Paper No. 9	

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DETAILED ACTION

Drawings

1. Figures 1-7 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

The Drawings are also objected because Figs. 1-3, 7 and 8 contains elements represented by boxes without labels. The elements have numbers associated with them but no labels to tell a reader what they do without referring to the disclosure, and their functions are not apparent from the boxes used to represent them. Appropriate correction is required. For example, element 10 in Fig. 1 may be labeled "correlation means".

Specification

2. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

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The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

In particular, the applicants are reminded that the abstract should only have one paragraph. Further, the first and the third paragraphs are grammatically awkward.

Claim Objections

3. Claims 1-3 are objected to because of the following informalities:

Regarding claim 1, "at least one multiple access interference suppression stage" in line 3 should be changed to – <u>a plurality of</u> multiple access interference suppression <u>stages</u> – so as to be consistent with the subsequent limitation "the interference suppression stages" recited in lines 24-25.

Regarding claim 3, "ESI₁" in line 5 should be – ESI_i --.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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5. Claims 1-3 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Claim 1 recites means (131, 132, 133) for producing synchronization signals able to control the interference suppression means and means (161, 162, 163) for producing synchronization signals able to control the decision means (151, 152, 153) of the final stage (ED) in lines 15-18. These limitations are directed to the reference numerals of the embodiment in Fig. 7. However, on the other hand, the rest limitations are referred to the embodiment shown in Fig. 8. The specification of the present application never teaches the embodiments in Figs 7 and 8 may be used together. Further, as shown in Fig. 7, the interference suppression means (121, 122, 123) never receives a control signal from the means (131, 132, 133) for producing synchronization signal. Therefore, the claimed limitation "means (131, 132, 133) for producing synchronization signals able to control the interference suppression means" does not have support in the specification.

- 6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 7. Claims 1-3 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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Claim 1 recites the limitation "the means for producing synchronization signals are constituted by k means (171, 172, 173)" in lines 19-20. It is not clear the k means are constituted in "the means (131, 132, 133) for producing synchronization signal able to control the interference suppression means" (see lines 15-16) or "the means (161, 162, 163) for producing synchronization signals able to control the decision means (151, 152, 153) of the final stage (ED)" (see lines 17-18).

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Wagner et al. (U.S. Patent No. 6,229,857), Seo (U.S. Patent No. 6,222,833), Takeuchi et al. (U.S. Patent No. 5,467,368), Zeger et al. (U.S. Patent No. 5,099,493), Gutleber (U.S. Patent No. 4,470,138) and Buehrer et al. ("Analysis of DS-CDMA Parallel Interference Cancellation with Phase and Timing Errors", IEEE Journal of Selected Areas in Communication, Oct. 1996).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chieh M Fan whose telephone number is (703) 305-0198. The examiner can normally be reached on Monday-Friday 8:00AM-5:30PM, Alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on (703) 305-4714. The fax phone numbers

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for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4750.

Chieh M Fan
Examiner
Art Unit 2634

cmf July 27, 2003